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    Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
    Thereof

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<150> US
<151> 2000-01-04

<150> US 60/115,125
<151> 1999-01-06

<160> 112

<170> PatentIn version 3.2

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3186

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caaataaaca aaaacttcca atctccattt aaaat   155

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      cccacatttc cattttaat atatactgtg ctttacaaat attataatat gttttaaaat   180

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      caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga   360
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40   aaaggggaa ggcccccaaa accggggggg gggnaaaaag gtgggtttcc cccttttcc   180

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caaattgggg ggnaaaccaa atttaagggg ggaaggggggg gncccccccg ggaaaggccc   180

aagggggggaa aatttttccg ggggtgggtn gggggaaccca atttaagggg ggggcccccg   240
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ctgtacttga actctaaaac tgttggagaa actcagtgct tacccccaaca gattcatttc   180
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aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc   240

attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctctt   300

45 ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt   360

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3203

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg   180

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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt   120

gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct   180

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aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag   180

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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca   180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga   240

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gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta   180

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gctggaaggc ttgnagggca gaaaagggat ccgcctttgg gaggaaccca ggtaaggttt   120

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3218

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cacgcacggc agcgagtgca atgnccgatt cattcttnaa cgacgcacac acccngnngc   120

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ngatnnagac cncnnatcac ctaatacanc catnactcan atgactnttt gtgcgccttt   120

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25

ggtgctcctg cgtttggact gtgcaggcct ctcctatgct gatgcgtctc cccactcctg   180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc   240

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ggnaggaccc tgntgactcg gggggcggga gcngggancc agg   103

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tttaaaaatt tatgccatat gtccagcttc cagtcagtgc ttctggttag catgaggata   120

45 actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt   180

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc   180

cantnnnctg gggncccacn nnngngaact gagagtggat cttgtgtacc tgacnnacca   240

30

gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga   300

ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg   360

35   ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat   420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa   480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt   540

40

tgntagatga nnngntgctc ncccttgngg ctnacaaatt ccancaccnt tggtggcngc   600

agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt   660

45   gttncaaggc ccttctgcna aatatgaana aaagngcnct tagcttttg ngggaactgn   720

actggaaatt ttg   733

<210> 53
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15 caagtacgcn agcnctgaan ctaaagcaag caagaaaaag   100

<210> 54
<211> 515
20 <212> DNA
<213> Human

<400> 54
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agagccaagc taaaccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg   120

tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa   180

30 gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca   240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg   300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa   360
35
tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt   420

ataagtaacc tgaaaacatt ctcctctgca taagccctgc gttggattat atcctgcact   480

40 gacaattaac tgccccaata tctacaatcc aaccc   515

<210> 55
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3263

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45   cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga   120

agcctgccct cattagacca agacagcaag gtttnccctg gtcactagat gaaatt   176

3264

<210> 56
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ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg   180
20
agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct   240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag   300

25 acattgttat tgccatt   317

<210> 57
<211> 209
30 <212> DNA
<213> Human

<400> 57
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ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc   120

aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat   180

40 taattgggag tgggggctga aacaattcg   209

<210> 58
<211> 262
45 <212> DNA
<213> Human

3265

<400> 58

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acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat   120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg   180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac   240

agagcgagac tccatctcta at   262

<210> 59
<211> 430
<212> DNA
<213> Human

<400> 59

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aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc tttggccctt   120

cccggggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa   180

aaccggccgg ggttttttata caaactggga acccactttt gaaaaatttt ggcctttttga   240

tctgggatgg gaatatgagt tttttatacat ttcatttttct tttttgggcaa aggcccggtt   300

aagtattccc ccccgggggg cctttacaaa aagggcggtt ttaaaagctt ttggggccccc   360

ctagggaatt gttttaacac ctaaaaaccc ctgcttccct taaaggggcg ttctttaatt   420

tgggggcggc   430

<210> 60
<211> 350
<212> DNA
<213> Human

<400> 60

aaacctctct aactatatat cacaataacc tgcgcataag atttacgctc cgatcttttc   60

atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg   120

tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca   180

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct   240

tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat   300

5   taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga   350

      <210> 61
      <211> 515
10   <212> DNA
      <213> Human

      <400> 61
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15   cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag   120

      aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt   180

20   taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg   240

      aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg   300

      agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa   360
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      atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat   420

      ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata   480

30   gtcttctaaa atatatgact ttatgaattc tgact   515

      <210> 62
      <211> 611
35   <212> DNA
      <213> Human

      <400> 62
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      aagactttgg ttttataaat aaggaggtat atataaatta tatatatttc tgagctgagt   120

      aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tccttttttgt   180

45   tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg   240

      tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa   300

tttgttaaaa ttgatatatt gatatataaa acttcttttg ccagtgttgg tggcacacgc   360

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttg agggcaggct   420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa   480

ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac   540

caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac   600

cagaccaaac t   611

<210> 63
<211> 291
<212> DNA
<213> Human

<400> 63
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taatgcgaat atacttcctc ttcttttttgc atggtcttgc ccagcctctg caatactgat   120

gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca   180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag   240

aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g   291

<210> 64
<211> 309
<212> DNA
<213> Human

<400> 64
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cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca   120

tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg   180

aggcacattg ttcctctatg ccccgctacg ctttgccctа gagctcggcg gtatctatat   240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat   300

ctgattaga   309

<210> 65
<211> 278
<212> DNA
<213> Human

<400> 65
tagaatggaa tggagtcgaa tgtgatggaa tggacgcgaa tggaatggaa tggactcgaa   60

tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa   120

agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa   180

tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa   240

tgtaatggaa tagactcgaa tggaatggaa cgaaattt   278

<210> 66
<211> 142
<212> DNA
<213> Human

<400> 66
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ttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa   120

atagctagta aactccccct gt   142

<210> 67
<211> 286
<212> DNA
<213> Human

<400> 67
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aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg   120

attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc   180

ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc   240

caaagctcca tttccttgaa agcagaagtg taatattact tcttag   286

<210> 68
<211> 179
<212> DNA
<213> Human

<400> 68
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tagaagtcat tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa   120

ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaat   179

<210> 69
<211> 390
<212> DNA
<213> Human

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cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca   120

ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt   180

agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg   240

gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata   300

ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt   360

ctcaatttct gcatgagaaa aaaggtggac   390

<210> 70
<211> 481
<212> DNA
<213> Human

<220>
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<222> (26)..(26)
<223> n is a, c, g, or t

<400> 70
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gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga   120

tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg   180

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat   240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat   300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga   360

tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca   420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat   480

g   481

<210> 71
<211> 125
<212> DNA
<213> Human

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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 20   <223> n is a, c, g, or t


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 25   <223> n is a, c, g, or t


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 35   <223> n is a, c, g, or t


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 40   <223> n is a, c, g, or t


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 45   <223> n is a, c, g, or t


      <220>
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<222> (100)..(100)
<223> n is a, c, g, or t

5 <220>
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<222> (110)..(110)
<223> n is a, c, g, or t

10 <400> 71
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ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc   120

15 cacag   125

<210> 72
<211> 473
20 <212> DNA
<213> Human

<220>
25 <221> misc_feature
<222> (151)..(151)
<223> n is a, c, g, or t

<400> 72
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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg   120

aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga   180

35

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa   240

tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa   300

40 ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga   360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga   420

tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga   473
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<400> 73

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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat   120

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gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa   180

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga   240

30 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga   300

tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga   360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat   420

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3274

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15 cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa   180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg   240

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3275

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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac   120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt   180
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tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact   240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga   300

45 aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat   360

gtcattg   367

<210> 77
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tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg   180

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tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa   180

25   tttccgttaa atagccgtta aatgtttta cccatttcat attggatacc ttaaattata   240

ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc   300

taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg   360
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<210> 79
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ccttgatgtt caagtattta agaccctatg cnaatatttt ttacctttc taataaacca   120

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3280

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ggccaggcct tcccttaaa aaaaaatnac cgttttngg gggangnaac ctttaaaagg   120

ggaaaanaaa tcctttttaa anggaantcc aagggaagga ncctgnncaa nacttccccn   180

20 ccaataaaaa aaaccntttt ggaaangggg aaa   213

<210> 81
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25 <212> DNA
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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat   120

3282

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg   180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat   240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa   300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa   360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa   420

atgaaatgaa atgagattaa atg   443

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3283

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gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata ' 120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag   180
15

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata   240

taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat   300

20 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg . 360

catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg   420

taggaaagca tttcttttt tt   442
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<211> 135
<212> DNA
30 <213> Human

<400> 83
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aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga   120

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aggaaggaag gaagg   135

<210> 84
<211> 346
<212> DNA
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gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag   120

aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag   180

agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc   240

aaccccagct agacagaact ttgtagattt tggggggttt aaaaggcctc aagcaaattc   300

taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact   346

<210> 85
<211> 100
<212> DNA
<213> Human

<400> 85
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gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa   100

<210> 86
<211> 201
<212> DNA
<213> Human

<400> 86
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3285

gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata   120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt   180

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     <210> 87
     <211> 531
10   <212> DNA
     <213> Human

     <400> 87
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     aacccagaac gaacgcgtta agtgcgcgtt atcttcctag gatagagtcg gtgacgggaa   120

     tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg   180

20   ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa   240

     ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc   300

     gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga   360
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     ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc   420

     gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag   480

30   aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a   531

     <210> 88
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     <400> 88
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     cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga   120

     acagccaaac cggtccgccc aaggcctccg tcgtttttata atatattccg tttacgtata   180

45   aggaacgaac cccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca   240

     gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa   300

                                 3286

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat   360

agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa   420

tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct   480

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ttccaccggc ctggttttgg tttttccata attaattaac caggggggncc anttaaaaaa   120

25 aattaaggna aggnttaaaa aatttaacca angggggggtt taaagggntt tttttttta   180

aaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc   240

cttaacccce gggtttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa   300
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ggaccggttt ccattttaat gggtattggg aa   332

<210> 90
35 <211> 185
<212> DNA
<213> Human

<400> 90
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cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa   120

taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180
45
ctcct   185

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ctaggggta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac   120

tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180

30   aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300

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ttgta   365

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15 <211> 210
<212> DNA
<213> Human

<400> 93
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atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt   120

ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaaaa attaaagaaa   180
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cttcatagaa ccccatctct acaccaaaaa   210

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3290

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45   ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa   420

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10 cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc   240

tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta   300

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3311

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